

Input Set: I454684.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

1 <110> APPLICANT: Probst, Peter
2 Bhatia, Ajay
3 Skeiky, Yasir
4 Fling, Steve
5 Maisonneuve, Jeff
6 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT AND
7 DIAGNOSIS OF CHLAMYDIAL INFECTION
8 <130> FILE REFERENCE: 210121.469C4
9 <140> CURRENT APPLICATION NUMBER: US/09/454,684
10 <141> CURRENT FILING DATE: 1999-12-03
11 <160> NUMBER OF SEQ ID NOS: 303
12 <170> SOFTWARE: FastSEQ for Windows Version 3.0/4.0
13 <210> SEQ ID NO 1
14 <211> LENGTH: 481
15 <212> TYPE: DNA
16 <213> ORGANISM: Chlamydia trachomatis
17 <400> SEQUENCE: 1
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19 gcgaaggaaag agccctcaac ttttcttatac accttcttta actaggagtc atccatgagt 120
20 caaaaataaga actctgcttt catgcagcct gtgaacgtat ccgctgtattt agctgccatc 180
21 gttgtgcag gacctatgcc tcgcacagag atcattaaga aaatgtggga ttacattaag 240
22 gagaatagtc ttcaagatcc tacaaacaaa cgtaatatca atcccgtatga taaaattggct 300
23 aaagtttttgaactgaaaaa acctatcgat atgttccaaa tgacaaaaat gtttctcaa 360
24 cacatcatta aataaaatag aaattgactc acgtgttcct cgtctttaag atgaggaact 420
25 agttcattct tttgttcgt ttttgtgggt attactgtat cttaacaac tatcttagca 480
26 g 481
27 <210> SEQ ID NO 2
28 <211> LENGTH: 183
29 <212> TYPE: DNA
30 <213> ORGANISM: Chlamydia trachomatis
31 <400> SEQUENCE: 2
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33 aaggagaata gtcttcaaga tcctacaaac aaacgtataa tcaatcccgta tgataaattg 120
34 gctaaagttt ttggaactga aaaaccttac gatatgttcc aatgacaaa aatggttct 180
35 caa 183
36 <210> SEQ ID NO 3
37 <211> LENGTH: 110
38 <212> TYPE: DNA
39 <213> ORGANISM: Chlamydia trachomatis
40 <400> SEQUENCE: 3
41 gctgcgacat catgcgagct tgcaaaccacatggacatc tccaaatttcc ctttctaact 60
42 cgctcttgg aactaatgct gctaccgagt caatcacaat cacatcgacc 110
43 <210> SEQ ID NO 4
44 <211> LENGTH: 555

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45 <212> TYPE: DNA
46 <213> ORGANISM: Chlamydia trachomatis
47 <400> SEQUENCE: 4
48 cggcacgac ctaagatgct tatactactt taagggaggc ctttcgtatg ccgcgcata 60
49 ttggaataga tattcctgcg aaaaagaaat taaaaataag tcttacatat atttatggaa 120
50 tagggccagc tctttctaaa gagattattt ctagattgca gttgaatccc gaagctagag 180
51 ctgcagagtt gactgaggaa gaggttggtc gactaaacgc tctttacag tcggattacg 240
52 ttgttgaagg ggatttgcgc cgctcgtgtc aatctgataa caaacgtctg attactatcc 300
53 atgcttatcg tggacaaaga catagacttt ctttgcctgt tcgtggtcag agaacaaaaa 360
54 caaattctcg cacgcgtaaag ggtaaacgta aaactattgc aggttaagaag aaataataat 420
55 ttttaggaga gagtgtttt gttaaaaatc aagcgaaaaa aagaggcgtaaagaaaaaac 480
56 aagtaaaaaa cattccttcg ggcgttgc atgttaaggc tacttttaat aatacaattt 540
57 taaccataac agacc 555

58 <210> SEQ ID NO 5
59 <211> LENGTH: 86
60 <212> TYPE: PRT
61 <213> ORGANISM: Chlamydia trachomatis
62 <400> SEQUENCE: 5
63 Met Ser Gln Asn Lys Asn Ser Ala Phe Met Gln Pro Val Asn Val Ser
64 1 5 10 15
65 Ala Asp Leu Ala Ala Ile Val Gly Ala Gly Pro Met Pro Arg Thr Glu
66 20 25 30
67 Ile Ile Lys Lys Met Trp Asp Tyr Ile Lys Glu Asn Ser Leu Gln Asp
68 35 40 45
69 Pro Thr Asn Lys Arg Asn Ile Asn Pro Asp Asp Lys Leu Ala Lys Val
70 50 55 60
71 Phe Gly Thr Glu Lys Pro Ile Asp Met Phe Gln Met Thr Lys Met Val
72 65 70 75 80
73 Ser Gln His Ile Ile Lys
74 85

75 <210> SEQ ID NO 6
76 <211> LENGTH: 61
77 <212> TYPE: PRT
78 <213> ORGANISM: Chlamydia trachomatis
79 <400> SEQUENCE: 6
80 Ile Val Gly Ala Gly Pro Met Pro Arg Thr Glu Ile Ile Lys Lys Met
81 1 5 10 15
82 Trp Asp Tyr Ile Lys Glu Asn Ser Leu Gln Asp Pro Thr Asn Lys Arg
83 20 25 30
84 Asn Ile Asn Pro Asp Asp Lys Leu Ala Lys Val Phe Gly Thr Glu Lys
85 35 40 45
86 Pro Ile Asp Met Phe Gln Met Thr Lys Met Val Ser Gln
87 50 55 60

88 <210> SEQ ID NO 7
89 <211> LENGTH: 36
90 <212> TYPE: PRT
91 <213> ORGANISM: Chlamydia trachomatis
92 <400> SEQUENCE: 7
93 Ala Ala Thr Ser Cys Glu Leu Ala Asn Gln His Gly His Leu Gln Phe
94 1 5 10 15

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/454,684DATE: 12/20/1999
TIME: 17:52:27

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95 Pro Leu Leu Thr Arg Ser Leu Glu Leu Met Leu Leu Pro Ser Gln Ser
96 20 25 30
97 Gln Ser His Arg
98 35
99 <210> SEQ ID NO 8
100 <211> LENGTH: 18
101 <212> TYPE: PRT
102 <213> ORGANISM: Chlamydia trachomatis
103 <400> SEQUENCE: 8
104 Leu Arg His His Ala Ser Leu Gln Thr Asn Met Asp Ile Ser Asn Phe
105 1 5 10 15
106 Pro Phe
107 <210> SEQ ID NO 9
108 <211> LENGTH: 5
109 <212> TYPE: PRT
110 <213> ORGANISM: Chlamydia trachomatis
111 <400> SEQUENCE: 9
112 Leu Ala Leu Trp Asn
113 1 5
114 <210> SEQ ID NO 10
115 <211> LENGTH: 11
116 <212> TYPE: PRT
117 <213> ORGANISM: Chlamydia trachomatis
118 <400> SEQUENCE: 10
119 Cys Cys Tyr Arg Val Asn His Asn His Ile Asp
120 1 5 10
121 <210> SEQ ID NO 11
122 <211> LENGTH: 36
123 <212> TYPE: PRT
124 <213> ORGANISM: Chlamydia trachomatis
125 <400> SEQUENCE: 11
126 Val Asp Val Ile Val Ile Asp Ser Val Ala Ala Leu Val Pro Lys Ser
127 1 5 10 15
128 Glu Leu Glu Gly Glu Ile Gly Asp Val His Val Gly Leu Gln Ala Arg
129 20 25 30
130 Met Met Ser Gln
131 35
132 <210> SEQ ID NO 12
133 <211> LENGTH: 122
134 <212> TYPE: PRT
135 <213> ORGANISM: Chlamydia trachomatis
136 <400> SEQUENCE: 12
137 Met Pro Arg Ile Ile Gly Ile Asp Ile Pro Ala Lys Lys Lys Leu Lys
138 1 5 10 15
139 Ile Ser Leu Thr Tyr Ile Tyr Gly Ile Gly Pro Ala Leu Ser Lys Glu
140 20 25 30
141 Ile Ile Ala Arg Leu Gln Leu Asn Pro Glu Ala Arg Ala Ala Glu Leu
142 35 40 45
143 Thr Glu Glu Glu Val Gly Arg Leu Asn Ala Leu Leu Gln Ser Asp Tyr
144 50 55 60

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145 Val Val Glu Gly Asp Leu Arg Arg Arg Val Gln Ser Asp Ile Lys Arg
146 65 70 75 80
147 Leu Ile Thr Ile His Ala Tyr Arg Gly Gln Arg His Arg Leu Ser Leu
148 85 90 95
149 Pro Val Arg Gly Gln Arg Thr Lys Thr Asn Ser Arg Thr Arg Lys Gly
150 100 105 110
151 Lys Arg Lys Thr Ile Ala Gly Lys Lys Lys
152 115 120
153 <210> SEQ ID NO 13
154 <211> LENGTH: 20
155 <212> TYPE: PRT
156 <213> ORGANISM: Chlamydia trachomatis
157 <400> SEQUENCE: 13
158 Asp Pro Thr Asn Lys Arg Asn Ile Asn Pro Asp Asp Lys Leu Ala Lys
159 1 5 10 15
160 Val Phe Gly Thr
161 20
162 <210> SEQ ID NO 14
163 <211> LENGTH: 20
164 <212> TYPE: PRT
165 <213> ORGANISM: Chlamydia trachomatis
166 <400> SEQUENCE: 14
167 Asp Asp Lys Leu Ala Lys Val Phe Gly Thr Glu Lys Pro Ile Asp Met
168 1 5 10 15
169 Phe Gln Met Thr
170 20
171 <210> SEQ ID NO 15
172 <211> LENGTH: 161
173 <212> TYPE: DNA
174 <213> ORGANISM: Chlymidia trachomatis
175 <400> SEQUENCE: 15
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177 ttaccttacct cgcgacatcc ggagctatcc gtccgattct gtttgcacaaaatgctgg 120
178 cgcaaccgtt tctttttcc caaactaaag caaatatggg a 161
179 <210> SEQ ID NO 16
180 <211> LENGTH: 897
181 <212> TYPE: DNA
182 <213> ORGANISM: Chlymidia trachomatis
183 <400> SEQUENCE: 16
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185 acacagccca acaataaaat ggcaagggtt gtaaaataaga cgaagggaaat ggataagact 120
186 attaagggtt ccaagtctgc tgccgaattt accgcaaata ttttggaaaca agctggaggc 180
187 gcgggcttcc cgcacacat tacagcttcc caagtgtcca aaggattagg ggatgcgaga 240
188 actgttgcg ctttagggaa tgcctttaac ggagcgttgc caggaacagt tcaaagtgcg 300
189 caaagcttct tctctcacat gaaagctgct agtcagaaaa cgcaagaagg ggatgagggg 360
190 ctcacagcag atctttgtgt gtctcataag cgcagagcgg ctgcggctgt ctgttagcatc 420
191 atcggaggaa ttaccttacct cgcgacatcc ggagctatcc gtccgattct gtttgcacaaaatgctgg 480
192 caaaaccgtt tctttttcc caaactaaag caaatatggg atcttctgtt 540
193 agctatatta tggcggctaa ccatgcagcg tctgtggact gtgctggact cgctatcagt 600
194 gcggaaaagag cagattgcga agcccgctgc gctcgtattt cgagagaaga gtcgttactc 660

Input Set: I454684.RAW

195 gaagtgccgg gagagggaaa tgcttgcgag aagaaagtgc ctggagagaa agccaagacg 720
 196 ttcacgcgca tcaagtatgc actcctcaact atgctcgaga agttttgga atgcgttgc 780
 197 gacgtttca aatttggtgcc gctgcttatt acaatgggta ttctgtgcgt tttggctgtc 840
 198 ggatgtacgt tcacttctgc aattatttggta ttctgtgcgtt tctgcgtccag agcataa 897
 199 <210> SEQ ID NO 17
 200 <211> LENGTH: 298
 201 <212> TYPE: PRT
 202 <213> ORGANISM: Chlamydia trachomatis
 203 <400> SEQUENCE: 17
 204 Met Ala Ser Ile Cys Gly Arg Leu Gly Ser Gly Thr Gly Asn Ala Leu
 205 1 5 10 15
 206 Lys Ala Phe Phe Thr Gln Pro Asn Asn Lys Met Ala Arg Val Val Asn
 207 20 25 30
 208 Lys Thr Lys Gly Met Asp Lys Thr Ile Lys Val Ala Lys Ser Ala Ala
 209 35 40 45
 210 Glu Leu Thr Ala Asn Ile Leu Glu Gln Ala Gly Gly Ala Gly Ser Ser
 211 50 55 60
 212 Ala His Ile Thr Ala Ser Gln Val Ser Lys Gly Leu Gly Asp Ala Arg
 213 65 70 75 80
 214 Thr Val Val Ala Leu Gly Asn Ala Phe Asn Gly Ala Leu Pro Gly Thr
 215 85 90 95
 216 Val Gln Ser Ala Gln Ser Phe Phe Ser His Met Lys Ala Ala Ser Gln
 217 100 105 110
 218 Lys Thr Gln Glu Gly Asp Glu Gly Leu Thr Ala Asp Leu Cys Val Ser
 219 115 120 125
 220 His Lys Arg Arg Ala Ala Ala Val Cys Ser Ile Ile Gly Gly Ile
 221 130 135 140
 222 Thr Tyr Leu Ala Thr Phe Gly Ala Ile Arg Pro Ile Leu Phe Val Asn
 223 145 150 155 160
 224 Lys Met Leu Ala Lys Pro Phe Leu Ser Ser Gln Thr Lys Ala Asn Met
 225 165 170 175
 226 Gly Ser Ser Val Ser Tyr Ile Met Ala Ala Asn His Ala Ala Ser Val
 227 180 185 190
 228 Val Gly Ala Gly Leu Ala Ile Ser Ala Glu Arg Ala Asp Cys Glu Ala
 229 195 200 205
 230 Arg Cys Ala Arg Ile Ala Arg Glu Glu Ser Leu Leu Glu Val Pro Gly
 231 210 215 220
 232 Glu Glu Asn Ala Cys Glu Lys Lys Val Ala Gly Glu Lys Ala Lys Thr
 233 225 230 235 240
 234 Phe Thr Arg Ile Lys Tyr Ala Leu Leu Thr Met Leu Glu Lys Phe Leu
 235 245 250 255
 236 Glu Cys Val Ala Asp Val Phe Lys Leu Val Pro Leu Pro Ile Thr Met
 237 260 265 270
 238 Gly Ile Arg Ala Ile Val Ala Ala Gly Cys Thr Phe Thr Ser Ala Ile
 239 275 280 285
 240 Ile Gly Leu Cys Thr Phe Cys Ala Arg Ala
 241 290 295
 242 <210> SEQ ID NO 18
 243 <211> LENGTH: 18
 <212> TYPE: PRT

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Input Set: I454684.RAW

Line ? Error/Warning

Original Text

602 W "N" or "Xaa" used: Feature required
620 W "N" or "Xaa" used: Feature required
645 W "N" or "Xaa" used: Feature required
1014 W "N" or "Xaa" used: Feature required
1092 W "N" or "Xaa" used: Feature required
1093 W "N" or "Xaa" used: Feature required
1122 W "N" or "Xaa" used: Feature required
1123 W "N" or "Xaa" used: Feature required
1124 W "N" or "Xaa" used: Feature required
1179 W "N" or "Xaa" used: Feature required
1958 W "N" or "Xaa" used: Feature required
3272 W "N" or "Xaa" used: Feature required
3473 W "N" or "Xaa" used: Feature required
4668 W "N" or "Xaa" used: Feature required
4672 W "N" or "Xaa" used: Feature required
4694 W "N" or "Xaa" used: Feature required
4696 W "N" or "Xaa" used: Feature required
4698 W "N" or "Xaa" used: Feature required
6140 W "N" or "Xaa" used: Feature required
6178 W "N" or "Xaa" used: Feature required
6211 W "N" or "Xaa" used: Feature required
6249 W "N" or "Xaa" used: Feature required
6324 W "N" or "Xaa" used: Feature required
6549 W "N" or "Xaa" used: Feature required

gatccgaatt cggcacgagg cantattac tcccaaca
gatccgaatt cggcacgagn ttttcctgt tttttctt
ccgacacaacgt attcattacg ttaggcgggt ttagaaag
gatccgaatt cggcacgaga agtagatcc gatntcag
gaaaccttgn tctttcgnc tcttcctgt agcanaca
tcagcgtatt cggactgatg ccctaaagat cccnggan
aagtatttt atagctgaag aacataggat gagtcatg
atgaaaagact gaataagcta tttgatagcc ccttttagt
nagctnagaa caaaattgct agaggagatg ttcgttct
aaagttgnng gggata
ctcgtacgat atctttgtgt gtctcataag cgcanagc
Gln Arg Thr Ser Asp Gln Gly Leu Val Arg A
Gly Ser Lys Val Xaa Phe
Phe Phe Thr Gly Asn Ser Ala Thr Asn Gly G
Gln Xaa Thr Leu Phe Ala Ser Asn Ser Ala L
Leu Lys Asp Arg Ala Val Leu Ser Xaa Pro S
Gln Ala Leu Leu Ile Met Glu Ala Gly Thr S
Asp Leu Lys Leu Xaa Thr Xaa Ser Ile Pro L
gcgnaaagag cagattgcga agcccgctgc gctcgat
Val Gly Ala Gly Leu Ala Ile Ser Ala Xaa A
gcgnaaagag cagattgcga agcccgctgc gctcgat
Val Gly Ala Gly Leu Ala Ile Ser Ala Xaa A
tctctgttac agataaggag actagangca tctagttt
cgtgccnt

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/454,684

DATE: 12/20/1999
TIME: 17:52:27

Input Set: I454684.RAW

PREVIOUSLY ERRORED SEQUENCES-EDITED

```
1 <210> 141
2 <211> 18
3 <212> PRT
4 <213> Artificial Sequence
5 <220>
6 <223> Made in a lab
7 <400> 141
8 Tyr Leu Ala Thr Phe Gly Ala Ile Arg Pro Ile Leu Phe Val Asn Lys
9 1 5 10 15
10 Met Leu
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PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/454,684DATE: 12/20/1999
TIME: 12:40:15

Input Set: I454684.RAW

This Raw Listing contains the General
Information Section and those Sequences
containing ERRORS.

1 <110> Probst, Peter
2 Bhatia, Ajay
3 Skeiky, Yasir
4 Fling, Steve
5 Maisonneuve, Jeff
6 <120> COMPOSITIONS AND METHODS FOR TREATMENT AND
7 DIAGNOSIS OF CHLAMYDIAL INFECTION
8 <130> 210121.469C4
9 <140> US/09/454,684
10 <141> 1999-12-03
11 <160> 303
12 <170> FastSEQ for Windows Version 3.0/4.0

Does Not Comply
Corrected Diskette Needed

ERRORED SEQUENCES FOLLOW

13 <210> 141
14 <211> 18
15 <212> PRT
16 <213> Artificial Sequence
17 <220>
18 <223> Made in a lab
E--> 19 <400> 141
20 Tyr Leu Ala Thr Phe Gly Ala Ile Arg Pro Ile Leu Phe Val Asn Lys
21 1 5 10 15
22 Met Leu

PAGE: 2

VERIFICATION SUMMARY
PATENT APPLICATION US/09/454,684

DATE: 12/20/1999

TIME: 12:40:15

Input Set: I454684.RAW

Line ? Error/Warning

Original Text

19 E Sequence IDs 14 and 141 differ

<400> 14

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/454,684

CRF Processing Date: 12/20/99
Edited by: 2
Verified by: 2 (STIC Staff)

Changed a file from non-ASCII to ASCII

Changed the margins in cases where the sequence text was "wrapped" down to the next line.

Edited a format error in the Current Application Data section, specifically:

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____

Added the mandatory heading and subheadings for "Current Application Data".

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: 141

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

Inserted colons after headings/subheadings. Headings edited included:

Deleted extra, invalid, headings used by an applicant, specifically:

Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as _____

Inserted mandatory headings, specifically:

Corrected an obvious error in the response, specifically:

Edited identifiers where upper case is used but lower case is required, or vice versa.

Corrected an error in the Number of Sequences field, specifically:

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected:

Other: